

ASSA ABLOY AB, et al v CPC Patent Technologies Pty Ltd

IPR2022-01093

IPR2022-01094

HEARING: NOVEMBER 9, 2023

Patent Owner's Slides – Not Evidence

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Petitioner's Grounds 1 & 2

Ground	Prior Art	Statutory Basis	Claims
1	Hsu and Sanford	§103	1, 2, 13, 14, 19, and 20
2	Hsu, Sanford, and Tsukamura	§103	1, 2, 13, 14, 19, and 20

Source: Petition at p. 3

Claim 1

1. A method of enrolling in a biometric card pointer system, the method comprising the steps of receiving card information; receiving the biometric signature; **defining, dependent upon the received card information, a memory location in a local memory external to the card;** determining if the defined memory location is unoccupied; and storing, if the memory location is unoccupied, the biometric signature at the defined memory location.

Source: Ex. 1001 ('039 Patent) at Claim 1

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11 portable verification station and connect it to his or her personal computer (PC) in order to participate in an on-line casino. This type of application may require that the portable verification station be loaded with a station identification number (which can be the serial number of the portable verification station) or the registered supplier premises. This station identification number is then transmitted to the on-line casino back-end processes together with the card information 608. This type of application does not require some modification of the back-end processes.

In another scenario, the holder of the card 601 takes the card 601 and the portable verification station 127 to a shop which does not, as yet, have a BCP installation on the premises. In this event, providing that the BCP concept is known, the holder of the card 601 is able to apply the card to the card reader 112, apply their biometric signature to the biometric reader 102, and have the verification station 127 output the corresponding card information 608. The shop assistant in this instance will, providing that they are aware of the BCP concept, know that the holder of the card 601 is the authorized owner.

INDUSTRIAL APPLICABILITY

It is apparent from the above that the arrangements described are applicable to the computer and data processing industries.

Furthermore, the disclosed biometric card pointer arrangements can be used in regard to credit cards, loyalty cards, access cards, ATM and bank of financial cards and others. The BCP arrangements can, in general be used in addition to standard cards for purposes of entry, identification, accessing details pertinent to the user, (i.e. authorization to be in a specific location based on user data), payment purposes or in associated loyalty, club membership applications, motor vehicle or specialist vehicle machinery operations and more.

Thus, for example, the BCP arrangement can be added to ATM machines, wherein the card user is required to enter their biometric signature for verification prior to operating their normal ATM PIN and withdrawing funds, thereby increasing the security of the ATM arrangement with minimal changes to the underlying platform.

Furthermore, the disclosed BCP arrangement can be used for secure access to a hotel room. When a guest registers with a hotel, the hotel issues the guest with a card containing a number defining the room number and planned departure date. After the guest enters their biometric signature at the verification station (which includes a real time clock to match the actual time against the planned date of departure) mounted at the door of their room using the aforementioned card, the BCP arrangement will give them secure access to their room for the duration of their stay.

In addition to issuing the card, a fingerprint reader can be located at each room in the hotel. When the card is first issued, the guest uses the card to gain access and change or update the code at the room for their exclusive use during their stay. The card reader can also allocate memory for storage of fingerprints, any number of fingerprints can be allocated to the card which allows the individual and all associated guests to enroll their biometric signature at this point. The arrangement is simply achieved, for example, by inserting the card and placing a finger on the fingerprint module. For each guest. Following this enrollment stage, the card or the finger can be used to gain access to the room, negating the requirement for guests to carry the room card, plus increasing security and convenience.

12 The benefit of having the card locate the fingerprints memory address is that the time and date of departure can also be added to the same memory location. Therefore, this application also allows other related data to be added to the memory location, enhancing the capability of the BCP arrangement. The ability to associate a memory location with a card number and expiry date can be related to many diverse applications, but utilizes the same principle as storage of the fingerprints data.

Another application for the disclosed BCP arrangement is in regard to passport control and customs. The BCP arrangement can be installed at passport control and customs in various countries, and persons can enter their biometric, after using their existing passport or ID card to pass through customs. The biometric signature is stored in a memory location related to the individual's passport or ID number, and retrieved for comparison as described in relation to FIG. 5. The foregoing describes only some embodiments of the present invention, and modifications and/or changes can be made thereto without departing from the scope and spirit of the invention, the embodiments being illustrative and not restrictive.

Thus, for example, although the description has been couched in terms of fingerprint biometric signatures, other biometrics such as facial shape, iris pattern can equally be used.

The claims defining the invention are as follows:

1. A method of enrolling in a biometric card pointer system, the method comprising the steps of: receiving card information; receiving the biometric signature; defining, dependent upon the received card information, a memory location in a local memory external to the card; determining if the defined memory location is unoccupied; and storing, if the memory location is unoccupied, the biometric signature at the defined memory location.

2. A method of obtaining verified access to a process, the method comprising the steps of: storing a biometric signature according to the enrollment method of claim 1; subsequently presenting card information and a biometric signature; and verifying the subsequently presented presentation of the card information and the biometric signature of the subsequently presented biometric signature matches the biometric signature of the memory location, in said local memory, defined by the subsequently presented card information.

3. A method of securing a process at a verification station, the method comprising the steps of: (a) providing card information from a card device to a card reader in the verification station; (b) inputting a biometric signature of a user of the card device to a biometric reader in the verification station; (c) determining if the provided card information has been previously provided to the verification station; (d) storing the inputted biometric signature in a memory at a memory location defined by the provided card information; and (e) performing the process dependent upon the received card information; (a) if the provided card information has been previously provided to the verification station.



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(10) Patent No.: US 8,620,039 B2
(45) Date of Patent: Dec. 31, 2013

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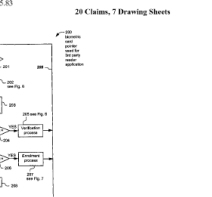
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Primary Examiner - Andrew W. Gibson
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ABSTRACT

The disclosed Biometric Card Pointer arrangements store (207) a card user's biometric signature in a local memory (124) in a verification station (127) the first time the card user uses the verification station (127) in question. The biometric signature is stored at a memory address (607) defined by the card information (605) on the user's card (601). All future uses of the particular verification station (127) by someone submitting the aforementioned card (601) requires the card user to submit both the card and a biometric signature, which is verified against the signature stored at the memory address defined by the card information (605) thereby determining if the person submitting the card is authorized to do so.



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Claim 2

2. A method of obtaining verified access to a process, the method comprising the steps of:

- storing a biometric signature according to the enrolment **method of claim 1**;
- subsequently presenting card information and a biometric signature; and
- verifying the subsequently presented presentation of the card information and the biometric signature if the subsequently presented biometric signature matches the biometric signature at the memory location, in said local memory, defined by the subsequently presented card information.

Source: Ex. 1001 ('039 Patent) at Claim 2

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portable verification station and connect it to his or her personal computer (PC) in order to participate in an on-line casino. This type of application may require that the portable verification station be loaded with a status identification number (which can be the serial number of the portable verification station) at the registered supplier premises. This status identification number is then transmitted to the on-line casino back-end processes together with the card information **605**. This type of application also requires some modification of the back-end processes.

In another example, the holder of the card **401** takes the card **401** and the portable verification station **127** to a shop which does not, as yet, have a BCP simulation on the premises. In this event, providing that the BCP concept is known to the holder of the card **401** it is able to apply the card to the card reader **112**, apply their biometric signature to the biometric reader **102**, and have the verification station **127** output the corresponding card information **605**. The shop assistant in this instance will, providing that they are aware of the BCP concept, know that the holder of the card **401** is the authorized owner.

INDUSTRIAL APPLICABILITY

It is apparent from the above that the arrangements described are applicable to the computer and data processing industries.

Furthermore, the disclosed biometric card pointer arrangements can be used in regard to credit cards, loyalty cards, access cards, ATM and bank or financial cards and others. The BCP arrangements can, in general, be used in addition to standard cash for purposes of entry, identification, accessing details pertinent to the user, (i.e. confirmation to be in a specific location based on user data), payment purposes or associated loyalty, club membership applications, motor vehicle or specialist vehicle machinery operation and more.

Thus, for example, the BCP arrangement can be added to ATM machines, wherein the card user is required to enter their biometric signature for verification prior to entering their normal ATM PIN and withdrawing funds, thereby increasing the security of the ATM arrangement with minimal changes to the underlying platform.

Furthermore, the disclosed BCP arrangement can be used for access access to hotel rooms. When a guest registers with the hotel, the hotel issues the guest with a card containing a number defining the room number and planned departure date. After the guest enters their biometric signature at the verification station (which includes a real time clock to match the actual time against the planned date of departure) mounted at the door of their room using the aforementioned card, the BCP arrangement will give them secure access to their room for the duration of their stay.

In addition to issuing the card, a fingerprint reader can be located at each room in the hotel. When the card is first issued, the guest uses the card to gain entry and change or replace the code at the room for their exclusive use during their stay. The card reader can also allocate memory for storage of fingerprints, (any number) fingerprints can be allocated to the new cards which allows the individual and all associated guests to enter their biometric signature at the point. The enrolment is simply achieved, for example, by inserting the card and placing a finger on the fingerprint module, for each guest. Following this enrolment stage, the card or the finger can be used to gain access to the room, requiring the requirement for guests to carry the room card, plus increasing security and convenience.

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The benefit of having the card locate the fingerprints memory address is that the time and date of departure can also be added to the same memory location. Therefore, this application also allows other related data to be added to the memory location, enhancing the capability of the BCP arrangement. The ability to associate memory location with a card number and expiry date can be related to many diverse applications, but utilizes the same principle as storage of the fingerprint data.

Another application for the disclosed BCP arrangement is in regard to passport control and customs. The BCP arrangement can be installed at passport control and customs in various countries, and a person can enter their biometric, after using their existing passport or ID card to pass through customs. The biometric signature is stored in memory location related to the individual's passport or ID number, and entered for comparison as described in relation to FIG. 5.

The foregoing describes only some embodiments of the present invention, and modifications and/or changes can be made thereto without departing from the scope and spirit of the invention, the embodiments being illustrative and not restrictive.

Thus, for example, although the description has been couched in terms of fingerprint biometric signatures, other biometrics such as facial shape, iris pattern can equally be used.

The claims defining the invention are as follows:

1. A method of enrolling in a biometric card pointer system, the method comprising the steps of:

- receiving card information;
- receiving the biometric signature;
- defining, dependent upon the received card information, a memory location in a local memory external to the card;
- determining if the defined memory location is unoccupied, and
- storing, if the memory location is unoccupied, the biometric signature at the defined memory location.

2. A method of obtaining verified access to a process, the method comprising the steps of:

- storing a biometric signature according to the enrolment method of claim 1;
- presenting card information and a biometric signature; and
- verifying the subsequently presented presentation of the card information and the biometric signature if the subsequently presented biometric signature matches the biometric signature at the memory location, in said local memory, defined by the subsequently presented card information.

3. A method of securing a process at a verification station, the method comprising the steps of:

- (a) providing card information from a card device to a card reader in the verification station;
- (b) inputting a biometric signature of a user of the card device to a biometric reader in the verification station;
- (c) determining if the provided card information has been previously provided to the verification station;
- (d) if the provided card information has not been previously provided to the verification station;
- (e) storing the inputted biometric signature in a memory at a memory location defined by the provided card information; and
- (f) performing the process dependent upon the received card information;
- (g) if the provided card information has been previously provided to the verification station;



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Agent, or Firm - Britns Gibson & Lense

ABSTRACT

A biometric Card Pointer arrangement stores user's biometric signature at a local memory location (127) the first time the card user location (127) is questioned. The biometric stored at a memory address (607) defined by the icon (605) on the user's card (401). All future successful verification attempts (127) by someone a aforementioned card (401) requires the card (401) both the card and a biometric signature, which uses the signature stored at the memory address card information (605) thereby determining if having the card is authorized to do so.

20 Claims, 7 Drawing Sheets



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Claim 3

3. A method of securing a process at a verification station, the method comprising the steps of:
- (a) providing card information from a card device to a card reader in the verification station;
 - (b) inputting a biometric signature of a user of the card device to a biometric reader in the verification station;
 - (c) determining if the provided card information has been previously provided to the verification station;
 - (d) if the provided card information has not been previously provided to the verification station;
 - (da) storing the inputted biometric signature in a memory at a memory location defined by the provided card information; and
 - (db) performing the process dependent upon the received card information;
 - (e) if the provided card information has been previously provided to the verification station;
 - (ea) comparing the inputted biometric signature to the biometric signature stored in the memory at the memory location defined by the provided card information;
 - (eb) if the inputted biometric signature matches the stored biometric signature, performing the process dependent upon the received card information; and
 - (ec) if the inputted biometric signature does not match the stored biometric signature, not performing the process dependent upon the received card information.

Source: Ex. 1001 ('039 Patent) at Claim 3

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